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Fuel pole material for methanol family - obtd. by vapour depositing ferrous elements at least one of titanium@, zirconium@, niobium, tantalum, platinum@ gp. elements

Patent Assignee: MITSUBISHI MATERIALS CORP (MITV)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 6111828	A	19940422	JP 92280984	A	19920925	199421 B

Priority Applications (No Type Date): JP 92280984 A 19920925

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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Abstract (Basic): JP 6111828 A

The fuel pole material is made by vapour depositing ferrous elements, one or more of Ti, Zr, Nb, and Ta, and one or more of Pt-gp elements on the surface of a metal matrix in an atmos. contg. one or more of N2 and O2, simultaneously irradiating one or more of ions of ferrous elements, metal elements, Pt-gp. elements, or inert gas by ion mixing, to form an amorphous alloy layer, and activating the surface of the amorphous alloy layer.

USE - For fuel pole material best suited to fuel cells using methanol, formaldehyde, or formic acid, as a methanol family fuel.

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Title Terms: FUEL; POLE; MATERIAL; METHANOL; FAMILY; OBTAIN; VAPOUR; DEPOSIT; FERROUS; ELEMENT; ONE; TITANIUM; ZIRCONIUM; NIOBIUM; TANTALUM; PLATINUM; GROUP; ELEMENT

Derwent Class: L03; X16

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International Patent Class (Additional): C23C-014/16; H01M-004/88;

H01M-004/90

File Segment: CPI; EPI

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Manual Codes (EPI/S-X): X16-E06A

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